JOINT MODULAR LIGHTER SYSTEM (JMLS) PROGRAM BRIEF

for

JLOTS R&D SYMPOSIUM

30 Jan 01

DAN McCLUSKEY
ACQUISITION PROGRAM DEPUTY
PROGRAM MANAGER
NAVFACENGCOM

AGENDA

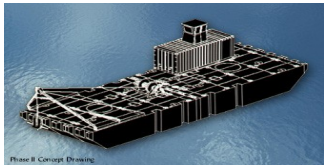
- JMLS PROGRAM OVERVIEW
- JMLS ACTD UPDATE
- JMLS TRANSITION UPDATE
- JMLS ACQUISITION PROGRAM UPDATE

JMLS PROGRAM OVERVIEW

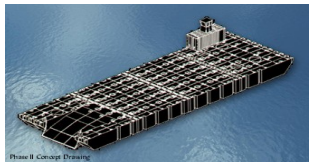
"Service-interoperable causeway lighterage system capable of assembly and operation (in a loaded condition) through Sea State 3 (3.5'- 5' waves, 16 knot winds)"

- JLOTS MNS Definition

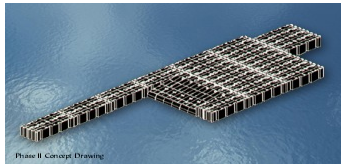
Warping Tug (WT)



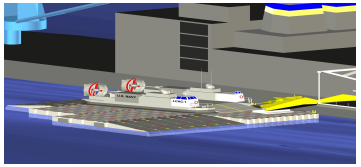
Causeway Ferry (CF)



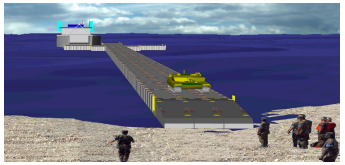
Roll On/ Roll Off Discharge Facility (RRDF)



AIR CUSHIONED VEHICLE LANDING PLATFORM (ACVLAP)



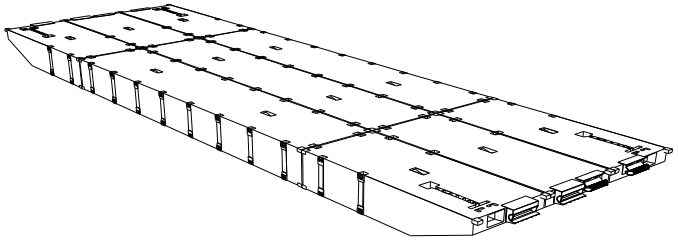
Floating Causeway (FC)



CURRENT LIGHTERAGE SYSTEMS

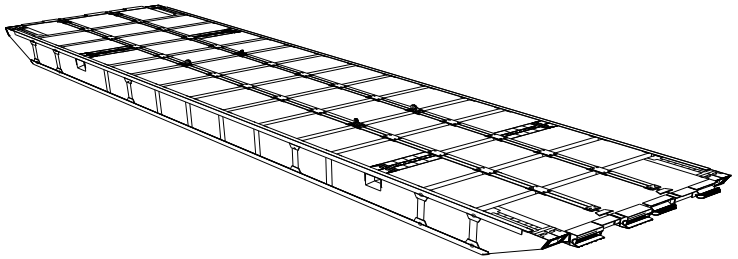
Basic Building Block used in LOTS/JLOTS Operations

U. S. Army Modular Causeway System (MCS)



In use: 1990 to present
Size: 24- x 80- x 4.5-ft
Significant Feature: Intermodal transport
Truly modular system

U. S. Navy Lightered (NL) Causeway System



In use: World War II to present
Size: 21- x 92- x 5-ft
Significant Feature: Proven system

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LIMITED TO SEA STATE 2

INTEROPERABLE END TO END

NL SERVICE LIFE IS 13 YEARS

JMLS PROGRAM OVERVIEW

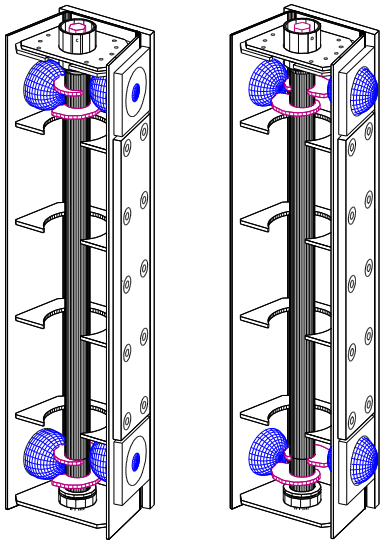
- **Advanced Concept Technology Demonstration**
  - OSD, Navy, Army sponsored
  - Design, fabricate, and test ISO compatible modular lighterage system
  - Technical Manager NAVFAC
  - Operational Manager USJFCOM
  - $28M RDT&E
  - Mar 98-Dec 00

- **Transition from ACTD to Acquisition Program**

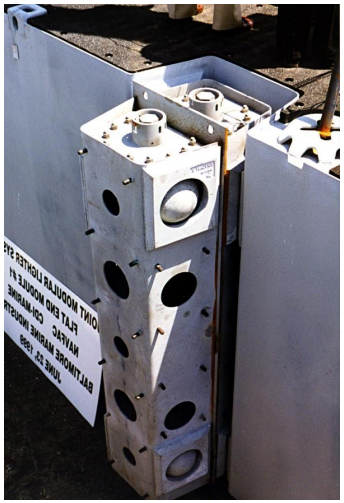
- **Acquisition Program**
  - Joint Navy and Army program
  - Procure Joint lighterage system to replace existing Army & Navy systems.
  - $650M Procurement dollars
  - FY03 - FY09
  - Likely Acquisition Category II (ACAT II)
  - Expected Milestone Decision Authority - DASN(SHIPS)

JMLS ACTD

JMLS CONNECTOR SYSTEM



KEY TECHNOLOGY FOR SS3



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JMLS ACTD UPDATE

Action since Jan 00 :

ACTD Contractor Test and Demo program (Jan- Jun 00)

ACTD Prototype Reliability and Safety Discrepancies Corrected: (June-Sept 00)

- **Engine reliability increased from less than 10% to greater than 90%**
- **Implemented module structural strength modifications**
- **Implemented connector stability hardware**

Government Test and Evaluation Program: (July- Dec 00)

- **Sea State 3 certifications for subsystem capabilities (15 of 19 achieved)**

Decision to change from 8’ wide module to 24’ wide module

ACTD Oversight Committee Meeting (Dec 00)

- **DUSD direction to cancel MUA and complete ACTD effective 11 Dec 00**
  - **-- Change in requirement (wider module)**
  - **-- Concern over achieving remaining SS3 certifications**
  - **-- System performance of 8’ module**
- **Four remaining T&E events with JFCOM sponsorship**
- **Program begins Transition to formal Joint Acquisition Program**

JMLS ACTD KTR TEST & DEMO

UNCLASSIFIED

JMLS ACTD GOVT T&E

TRANSITION UPDATE

Four remaining T&E efforts with prototype hardware located at Little Creek

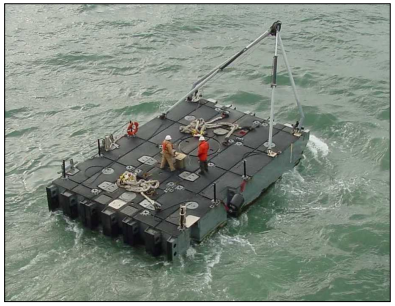
-- Assembly and disassembly in SS3
Awaiting weather conditions

-- RRDF Assembly/Structural integrity in SS3
RRDF platform deployed 15-17 Dec 00
Wave conditions up to SS4
Platform survived intact, some structural damage.

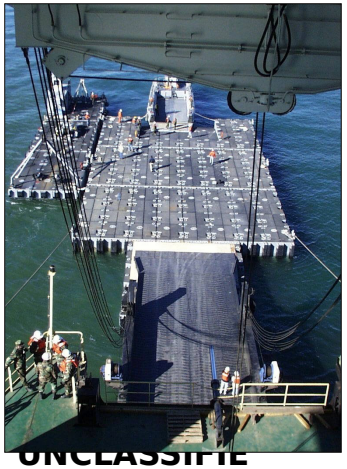
-- Ship Interface Tests
MPF ship MV LUMMUS tests 11-12 Jan 01
RRDF successful, SS1
CF successful, SS1

-- Overboarding
WT overboarding successful, SS2

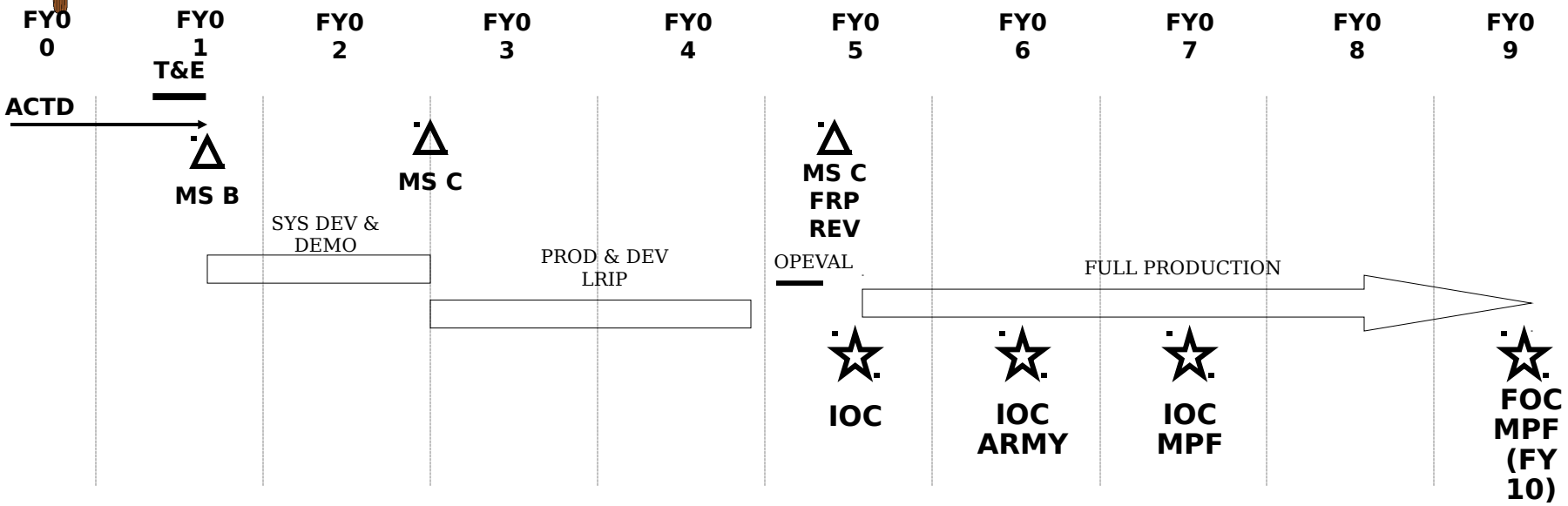
TRANSITION T&E



TRANSITION T&E



ACQUISITION STATUS



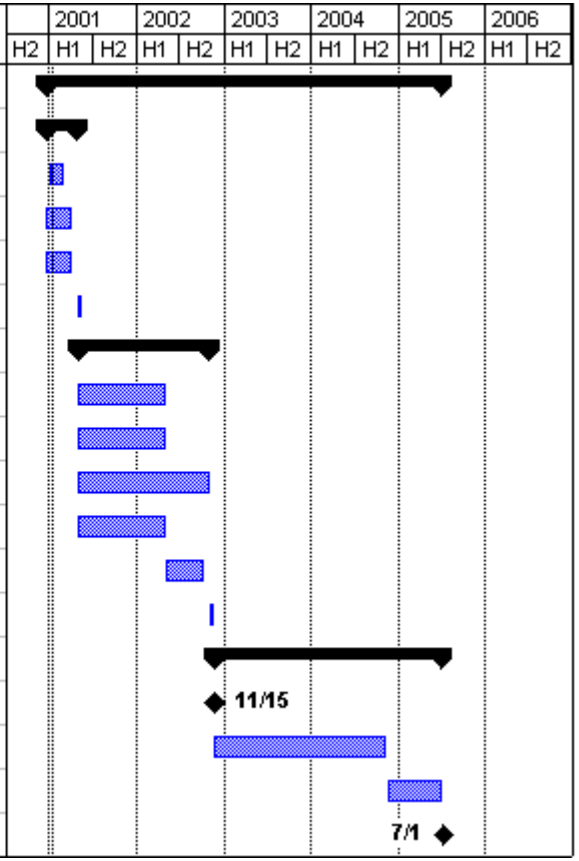
Acquisition Program to begin following completion of Transition. (April 01)

ACQUISITION STATUS

- **24’ Composite module design in process. Feasibility decision by March 01. (NSWC-CD)**
- **24’ Steel module design in process (5 months) Manufacture 2 units for test by July 01. (NFESC / USCG Shipyard)**
- **Propulsion plant evaluation in process. Estimate operational testing of alternatives by September 01. (NSWC-PHIL)**
- **PM Office staffing on schedule.**
- **Program documentation development on schedule for Milestone B.**

ACQUISITION PROGRAM SCHEDULE

ID	Task Name	Duration	Start	Finish
1	**Steps to IOC**	**1190 days**	**12/11/00**	**7/1/05**
2	**Transition to Milestone B**	**101 days**	**12/11/00**	**4/30/01**
3	Complete SS3 T&E	44 days	1/1/01	3/1/01
4	24-Foot Module Design	81 days	12/11/00	4/2/01
5	Prepare Acquisition Documentation	81 days	12/11/00	4/2/01
6	MS B Decision Brief	1 day	4/30/01	4/30/01
7	**MS B System Development and Demonstration**	**395 days**	**4/30/01**	**11/1/02**
8	Major Equipment Alternative Evaluation	263 days	4/30/01	5/1/02
9	Complete 24-Foot Module Effort	263 days	4/30/01	5/1/02
10	Update Acquisition Documentation	395 days	4/30/01	11/1/02
11	LRIP RFP Development (w/options)	263 days	4/30/01	5/1/02
12	Release RFP/Review Bids	110 days	5/1/02	10/1/02
13	MS C Decision Brief	1 day	11/1/02	11/1/02
14	**MS C Production and Development (LRIP)**	**686 days**	**11/15/02**	**7/1/05**
15	Award LRIP Contract (w/options)	0 days	11/15/02	11/15/02
16	Contract Performance	512 days	11/15/02	11/1/04
17	Operational Test and Evaluation	165 days	11/15/04	7/1/05
18	Full Rate Production Decision Review (IOC Met)	0 days	7/1/05	7/1/05



GOVERNMENT SUPPORT ACTIVITIES

ARMY PARTICIPATION

- ODCSOPS
- ODCSLOG
- 7th TRANS
- CASCOM
- ARMY TEST CENTER
- TACOM PHILADELPHIA

NAVY PARTICIPATION

- NFESC
- SLC
- ACB2 LITTLE CREEK
- NSWCCD CARDEROCK
- NSWCCD SUFFOLK
- NSWCCD
- OPNAV N42

and

MILITARY SEALIFT COMMAND

US COAST GUARD YARD CURTIS BAY

QUESTIONS??